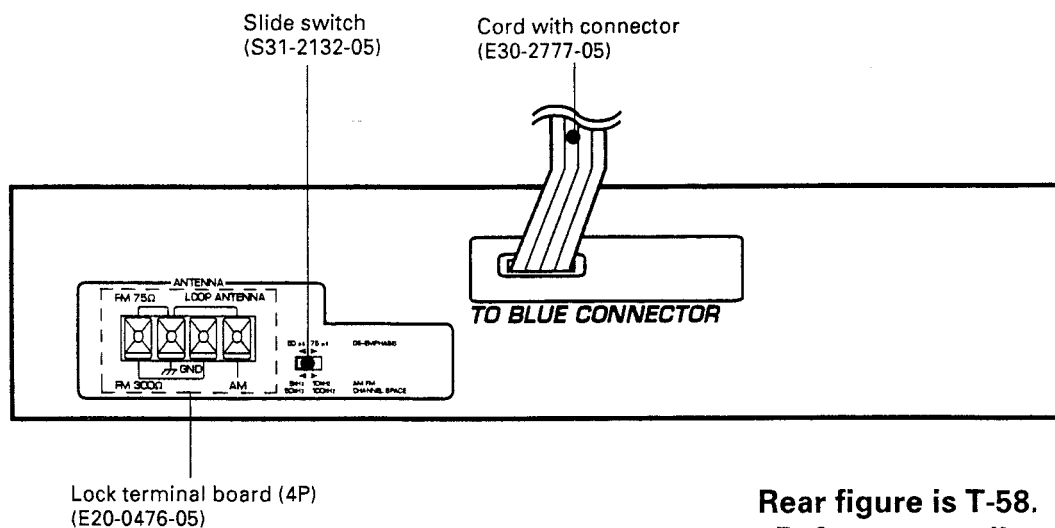
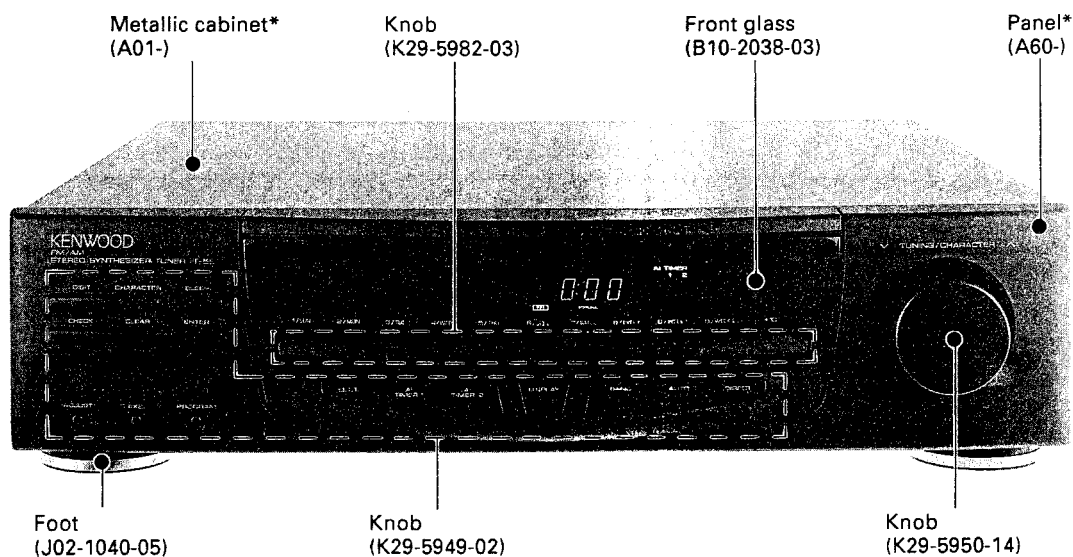


# T-58/L

## SERVICE MANUAL

# KENWOOD

© 1994-8 PRINTED IN KOREA  
B51-4911-00(K)2651

Rear figure is T-58.

\*Refer to parts list on page 22.

### PRECAUTIONS FOR REPAIR

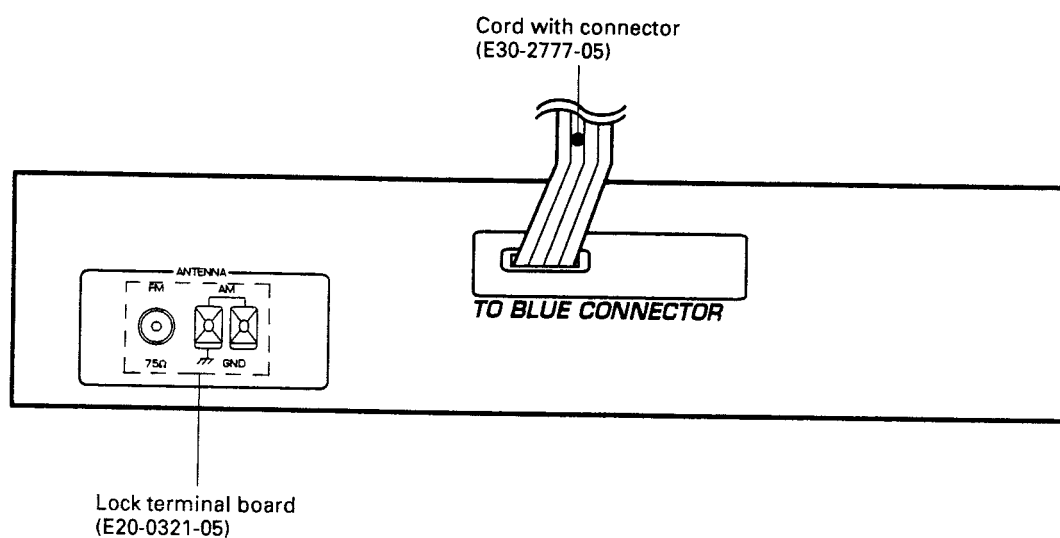
- T-58, T-58L don't have a power supply transformer. Use A-58, A-68 or RM-90PS, PS-93UA power supply to supply power, if neither is available, adjust to operate as instructed on page 9.
- When turning the power on, short the Check land (KR5 and KS0) (X05-, B/3).

## CONTENTS/EXTERNAL VIEW

### CONTENTS

EXTERNAL VIEW .....	2
ACCESSORIES .....	3
CONTROL .....	4
BLOCK DIAGRAM .....	5
CIRCUIT DESCRIPTION	
1. Surround $\mu$ -com : CXP50216-107S (IC201) .....	6
2. Test Mode .....	8
ADJUSTMENT .....	9
AJUSTES .....	10
PC BOARD (COMPONENT SIDE VIEW) .....	11
SCHEMATIC DIAGRAM .....	13
EXPLODED VIEW (UNIT) .....	21
PARTS LIST .....	22
SPECIFICATIONS .....	BACK COVER

### EXTERNAL VIEW : T-58L (Rear panel)



# ACCESSORIES

## System configuration

System name	AMP / GE	TUNER	CD/LD PLAYER	CASSETTE DECK	Speakers
MIDI M-58	A-58	T-58L	DP-58	X-58	LS-58
MIDI M-58M	A-58	T-58L	DP-M58	X-58	LS-58
MIDI M-767	A-58	T-58	DP-58	X-58	S-58
MIDI M-868M	A-58	T-58	DP-M58	X-58	S-58
MIDI M-969LD	A-68	T-58	LVD-68	X-58	S-68

• **MIDI M-58, M-58M, M-767, M-868M :**

Speaker cords are packed with the Speakers. All other accessories are packed with the Amp/GE unit.

• **MIDI M-969LD**

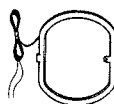
Speaker cords are packed with the Speakers. Remote control unit and batteries are packed with the CD/LD player unit.

All other accessories are packed with the Amp/GE unit.

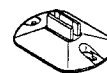
- FM indoor antenna ..... 1  
(T90-0182-15)



- AM loop antenna ass'y ..... 1  
(T90-0195-05)



- Loop antenna stand  
(J19-3645-05)

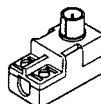


- AC plug adaptor ..... 1  
(E03-0115-05)  
M-767, M-868M, M-969LD only



Except for U.K., Europe and Australia.  
For the unit with a European AC plug  
in areas other than Europe.

- Antenna adaptor ..... 1  
(T90-0198-05)  
M-58, M-58M only



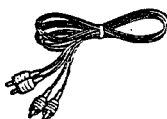
For U.K. and Europe.

- Speaker cords ..... 2  
(818. 05. 011) LS-58  
(E31-5479-08) S-58  
(E30-1271-08) S-68

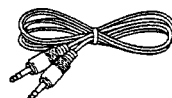


For U.K. and Europe.

- Audio cord ..... 1  
(E30-0505-05) M-969LD only



- Video cord ..... 1  
(E30-1427-05) M-969LD only



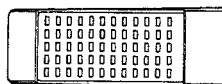
- Parallel cord ..... 1  
(E30-2628-05) M-969LD only



- Power cord ..... 1  
(E30-2778-05) Y  
(E30-2779-05) M,E,G, M-969LD  
(E30-2780-05) X  
(E30-2781-05) T

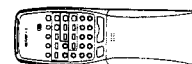


- Remote control unit (RC-58) ..... 1  
(A70-0986-05)  
M-58, M-58M, M-767, M-868M only



Battery cover  
(A09-0106-08)

- Remote control unit (RC-68LD) ..... 1  
(X94-1050-71) M-969LD only

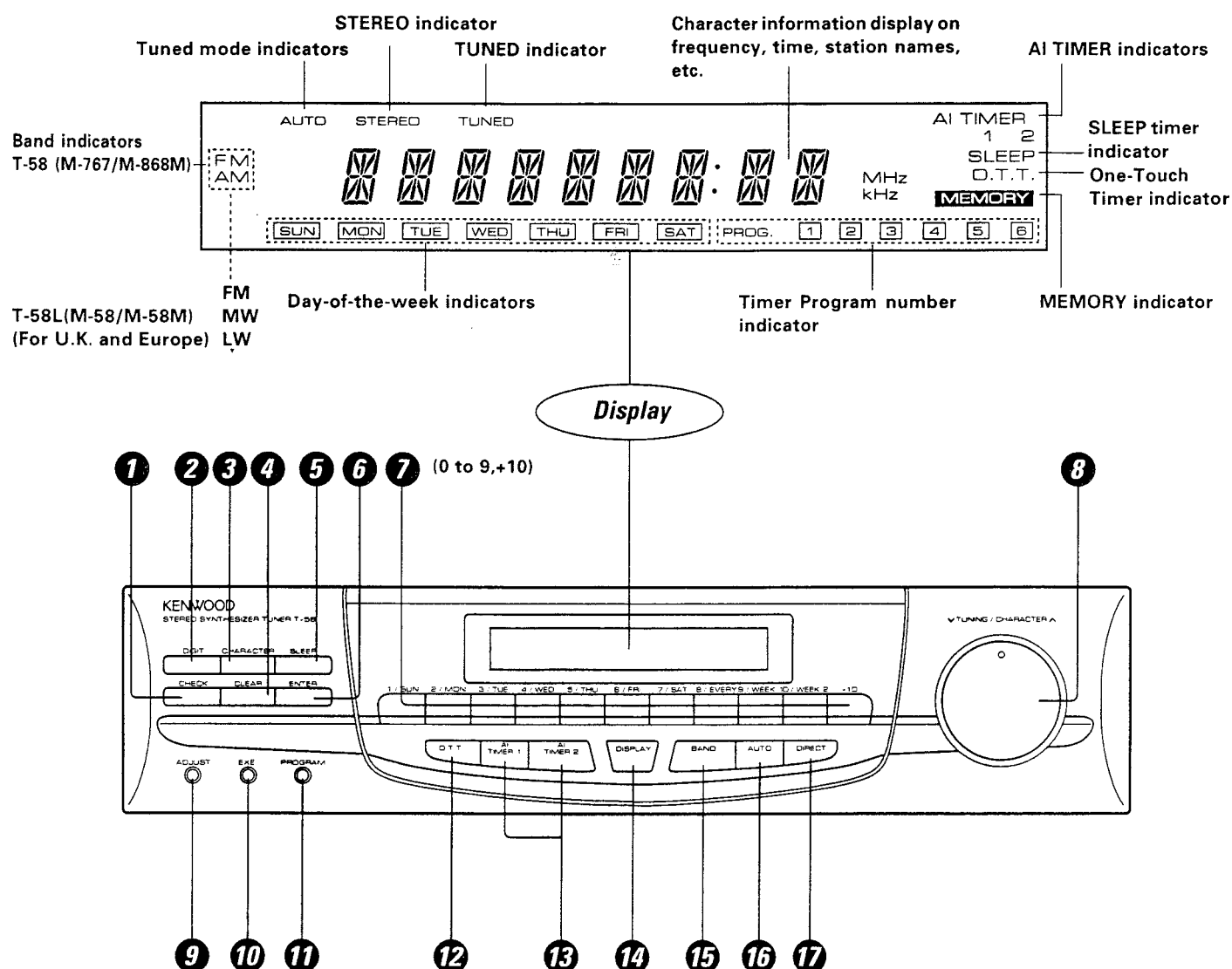


Battery cover  
(F07-0721-33)

- Batteries ..... 2

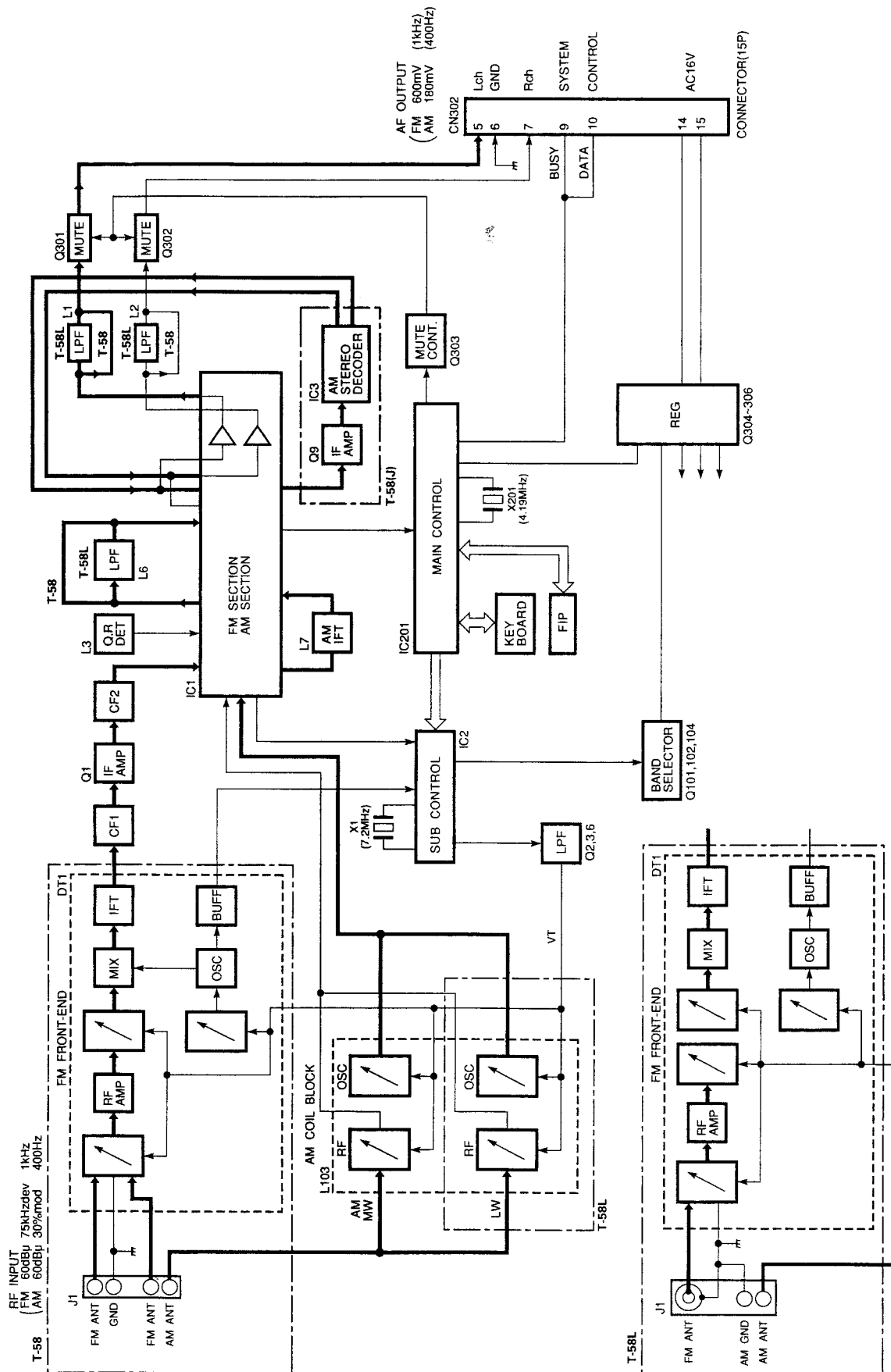


## CONTROL



- |  |   |  |
|--|---|--|
| <b>⑦ CHECK key</b><br>Press for calendar checking.                       | <b>⑤ ENTER key</b><br>Press when adjusting the clock time,<br>setting the timer or presetting a radio<br>station name.                  | <b>⑪ PROGRAM key</b><br>Press when setting the program timer.                              |
| <b>⑧ DIGIT key</b><br>Press when presetting a radio station<br>name.     | <b>⑦ Numeric/day-of-the-week keys</b><br>Press when selecting the radio station to<br>be received or setting the program timer.         | <b>⑫ O.T.T. (One-Touch Timer) key</b><br>Press for one-touch timer playback.               |
| <b>③ CHARACTER key</b><br>Press when presetting a radio station<br>name. | <b>⑧ TUNING/CHARACTER knob</b><br>Rotate when selecting the radio station<br>to be received or when presetting a radio<br>station name. | <b>⑬ AI TIMER 1/2 keys</b><br>Press for AI timer operation.                                |
| <b>④ CLEAR key</b><br>Press to cancel the program timer.                 | <b>⑨ ADJUST key</b><br>Press when adjusting the clock time.   | <b>⑭ DISPLAY key</b><br>Press to change the display contents.                              |
| <b>⑤ SLEEP key</b><br>Press to activate the sleep timer.                 | <b>⑩ EXE. key</b><br>Press to execute a timer program.  | <b>⑮ BAND key</b><br>Press to select the frequency band (FM/<br>AM) to be received.        |
|  |   | <b>⑯ AUTO key</b><br>Press to select the auto tuning mode or<br>to switch over the audio . |
|  |   | <b>⑰ DIRECT key</b><br>Press when receiving a radio station<br>using numeric keys.         |

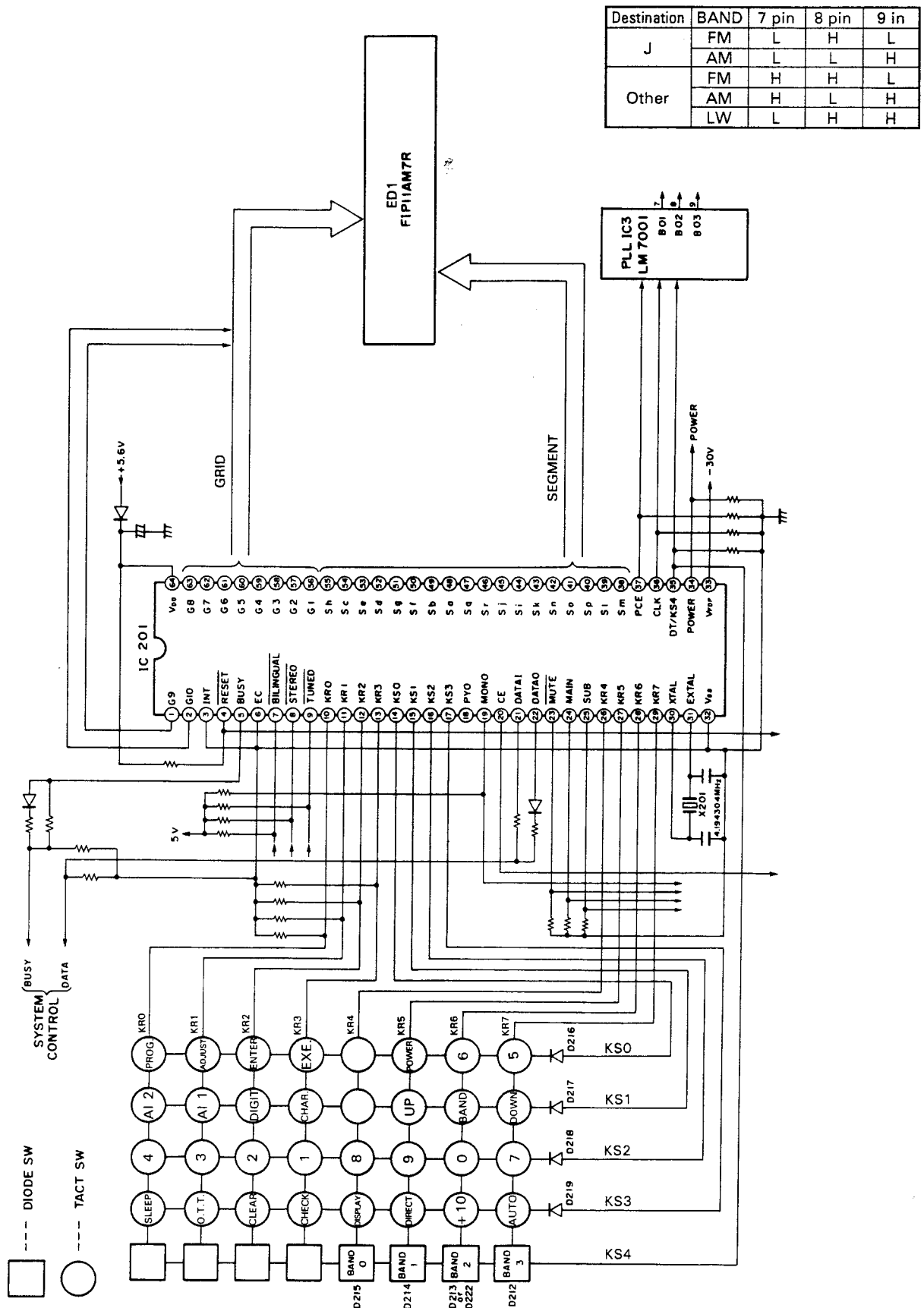
## BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

**1. Surround  $\mu$ -com : CXP50216-107S (IC201)**

### 1-1. Block diagram



# CIRCUIT DESCRIPTION

## 1-2. Pin function

No.	Name	I/O	Function
1, 2	G9, G10	O	FL grid output.
3	INT	–	Not used. (GND)
4	RESET	I	Reset input. ("H" : Normal, "L" : RESET)
5	BUSY	I/O	System control BUSY input/output
6	EC	–	Not used. (GND)
7	BIL	I	BILINGUAL. ("H" : Normal, "L" : BILINGUAL)
8	STEREO	I	Stereo signal input. ("H" : MONO, "L" : STEREO)
9	TUNED	I	Tuning signal input. ("H" : NO, "L" : TUNED)
10~13	KR0~KR3	I	Key return input. ("H" : ON, "L" : OFF)
14~17	KS0~KS3	O	Key scan output. ("H" : ON, "L" : OFF)
18	PY0	–	Not used. (Open)
19	MONO	O	Forced MONO output. ("H" : MONO, "L" : STEREO)
20	CE	I	AC OFF detection input. ("H" : AC ON, "L" : AC OFF)
21	DATAI	I	System control DATA input.
22	DATAO	O	System control DATA output.
23	MUTE	O	Line mute. ("H" : MUTE OFF, "L" : MUTE ON)
24	MAIN	–	Not used.
25	SUB	–	Not used.
26~29	KR4~KR7	I	Key return input. ("H" : ON, "L" : OFF)
30	XTAL	–	Quartz oscillator 4.194304MHz.
31	EXTAL	–	Quartz oscillator 4.194304MHz.
32	Vss	–	GND pin.
33	VFDP	–	–30V.
34	POWER	O	POWER ON/OFF control. ("H" : ON, "L" : OFF)
35	DT/KS4	O	PLL DATA output. (Key scan output for destination switch)
36	CLK	O	PLL CLOCK output.
37	PCE	O	PLL CE output.
38~55	Sm~Sh	O	FL segment output. (m, l, p, o, n, k, i, j, r, q, a, b, f, g, d, e, c, h)
56~63	G1~G8	O	FL glid output.
64	Vdd	–	+5V (Power supply).

## CIRCUIT DESCRIPTION

### 2. Test mode

#### Method of setting

While turning the TUNING/CHARACTER knob to counterclockwise, turn AC ON.

#### Contents

POWER ON

FLL all lit

Test frequency setting. (Table 1)

#### Method of cancelling

Clearing the FL all lit state is performed by numeral key, BAND key, TUNING/CHARACTER knob.

#### Initial status setting (Reset)

##### 1. Method

While pressing the ENTER key, turn AC ON.

##### 2. Contents

The all memory is cleared and the initial status is fully restored. At this time, however, test frequency is newly memorized in the preset memory. (Table 1)

Table 1

Destination Preset channel	T-58		T-58L
	J type	Y, M, X type	T, E, G type
01 ch	FM 76.0 MHz	FM 98.0 MHz	FM 98.0 MHz
02 ch	FM 78.0 MHz	FM 108.0 MHz	FM 108.0 MHz
03 ch	FM 83.5 MHz	AM 630 kHz	AM 630 kHz
04 ch	FM 88.0 MHz	AM 990 kHz	AM 990 kHz
05 ch	FM 90.0 MHz	AM 1440 kHz	AM 1440 kHz
06 ch	AM 531 kHz	AM 1602 kHz	AM 1602 kHz
	AM 630 kHz	(AM 1610 kHz)	
07 ch	AM 990 kHz	FM 87.5 MHz	LW 162 kHz
08 ch	AM 1440 kHz	FM 87.5 MHz	LW 216 kHz
09 ch	AM 1602 kHz	FM 87.5 MHz	LW 270 kHz
10 ch	FM 76.0 MHz	FM 89.1 MHz	FM 89.1 MHz
11 ch	FM 76.0 MHz	FM 87.5 MHz	LW 281 kHz
12 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
13 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
14 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
15 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
16 ch	AM 990 kHz	FM 87.5 MHz	FM 87.5 MHz
17 ch	FM 89.1 MHz	FM 87.5 MHz	FM 87.5 MHz
18 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
19 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz
20~30 ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz

### Conditions by destination

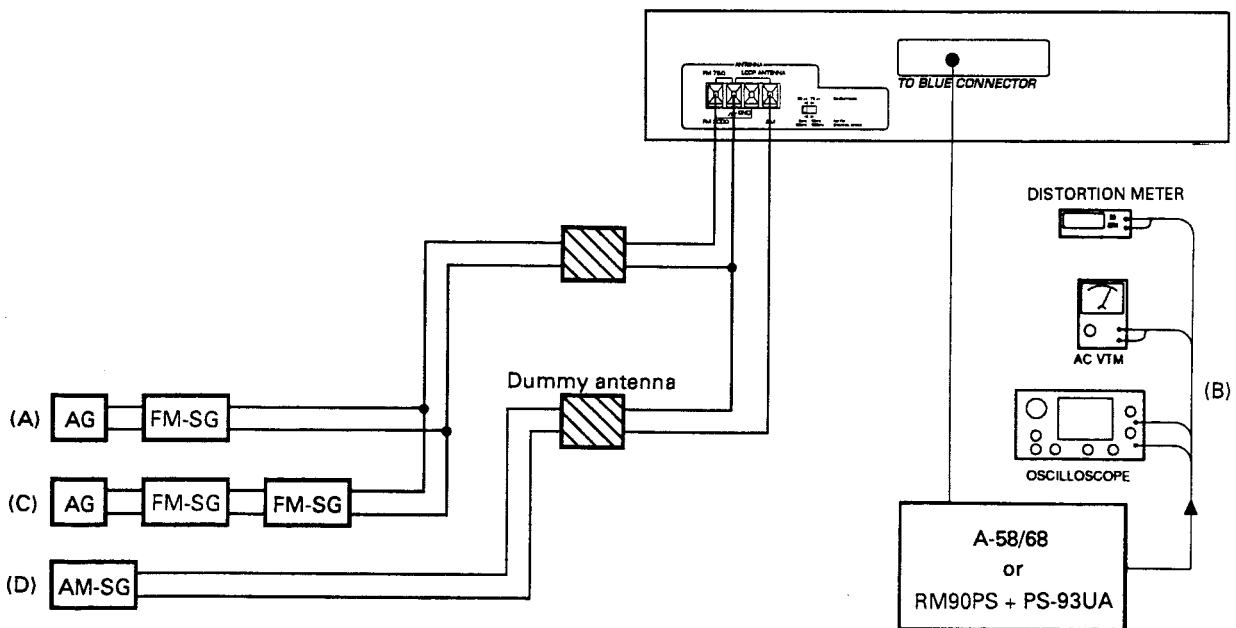
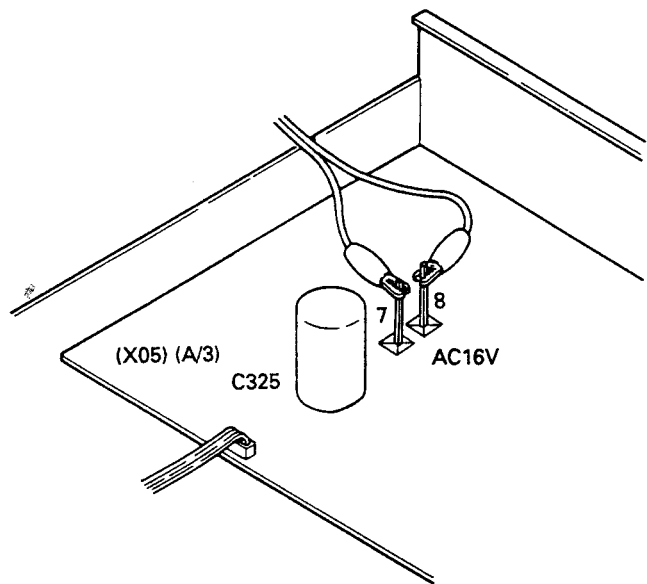
Type	Switches				Band	Receiving frequency range	Inter-channel space	Inter-mediate frequency	PLL reference frequency
	B3	B2	B1	B0					
T-58 : J	0	0	0	0	FM	76.0~90.0 MHz	100 kHz	-10.75MHz	25 kHz
					AM	531~1602 kHz	9 kHz	+450 kHz	9 kHz
T-58 : M, Y	1	1 or 0	1	0	FM	87.5~108.0MHz	100kHz or 50kHz	+10.7MHz	50 kHz
					AM	531~1602 kHz or 530~1610kHz	9 kHz or 10kHz	+450 kHz	10 kHz
T-58 : K, P	1	0	0	0	FM	87.5~108.0MHz	100 kHz	+10.7MHz	50 kHz
					AM	530~1700 kHz	10 kHz	+450 kHz	10 kHz
T-58 : X	1	1	0	0	FM	87.5~108.0MHz	50 kHz	+10.7MHz	50 kHz
					AM	531~1602 kHz	9 kHz	+450 kHz	9 kHz
T-58L : T, E, G	1	1	0	1	FM	87.5~108.0MHz	50 kHz	+10.7MHz	50 kHz
					MW	531~1602 kHz	9 kHz	+450 kHz	9 kHz
					LW	153~281 kHz	1 kHz	+450 kHz	1 kHz



## ADJUSTMENT

The T-58 and T-58L don't have a power transformer. Use A-58/68 or RM-90PS, PS-93UA to supply power to the T-58/58L. If neither is available, apply AC 16V to pin 7 and pin 8 of the tuner unit (X05-, A/3).

**When turning the power on, short the Check land (KR5 and KS0) (X05-, B/3).**



## ADJUSTMENT/AJUSTES

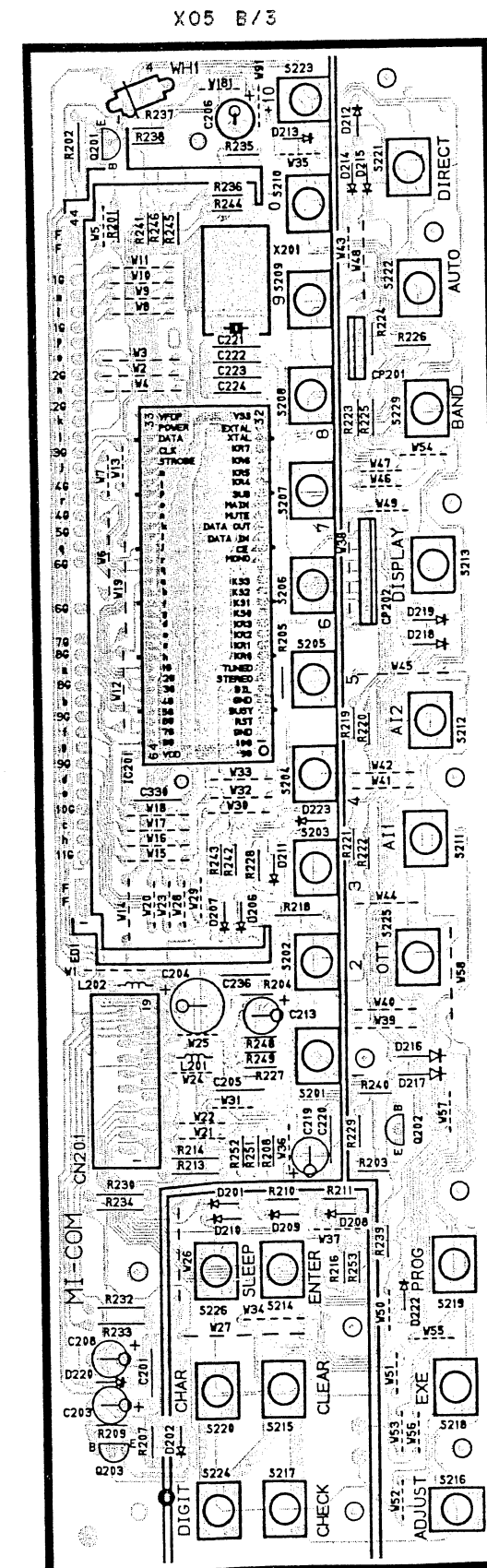
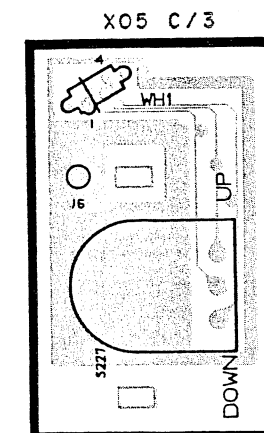
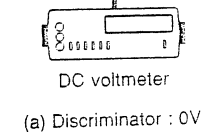
## ENGLISH

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b>		<b>SELECTOR : FM</b>					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev.(M,X,Y type) 1kHz, $\pm 40$ kHz dev.(E,T type) 60dB $\mu$ (ANT input)	Connect a DC voltmeter between TP9 and TP10. (X05-)	AUTO or MONO 98.0MHz	L3 (X05-)	0V	
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 67.5$ kHz dev. Pilot : $\pm 7.5$ kHz dev. (M,X,Y type) 1kHz, $\pm 40$ kHz dev. Pilot : $\pm 6$ kHz dev. (E,T type) 60dB $\mu$ (ANT input)	(B)	AUTO 98.0MHz	IFT (W02-)	Minimum distortion.	
3	SEPARATION (E,T type only)	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Pilot : $\pm 6$ kHz dev. Selector : L or R 60dB $\mu$ (ANT input)	(B)	AUTO 98.0MHz	VR1 (X05-)	Minimum crosstalk	

## ESPAÑOL

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
<b>SECCIÓN DE FM</b>		<b>SELECTOR : FM</b>					
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev.(M,X,Y type) 1kHz, $\pm 40$ kHz dev.(E,T type) 60dB $\mu$ (Entrada de antena)	Conecte un voltímetro de CC entre TP9 y TP10. (X05-)	AUTO or MONO 98.0MHz	L3 (X05-)	0V	
2	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, $\pm 67.5$ kHz dev. Pilot : $\pm 7.5$ kHz dev. (M,X,Y type) 1kHz, $\pm 40$ kHz dev. Pilot : $\pm 6$ kHz dev. (E,T type) 60dB $\mu$ (Entrada de antena)	(B)	AUTO 98.0MHz	IFT (W02-)	Distorsión mínima.	
3	SEPARACIÓN (E,T type only)	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Pilot : $\pm 6$ kHz dev. Selector : L or R 60dB $\mu$ (Entrada de antena)	(B)	AUTO 98.0MHz	VR1 (X05-)	Diáfonía mínima.	

JAPAN MADE : X05-449X-XX (0-02 : J, 0-22 : Y · M, 0-72 : X, 2-71 : E · T · G)  
SINGAPORE MADE : X05-449X-XX (0-01 : J, 0-21 : Y · M, 0-71 : X, 2-70 : E · T · G)  
MALAYSIA MADE : X05-449X-XX (0-21 : I, 2-70 : E · T · G)

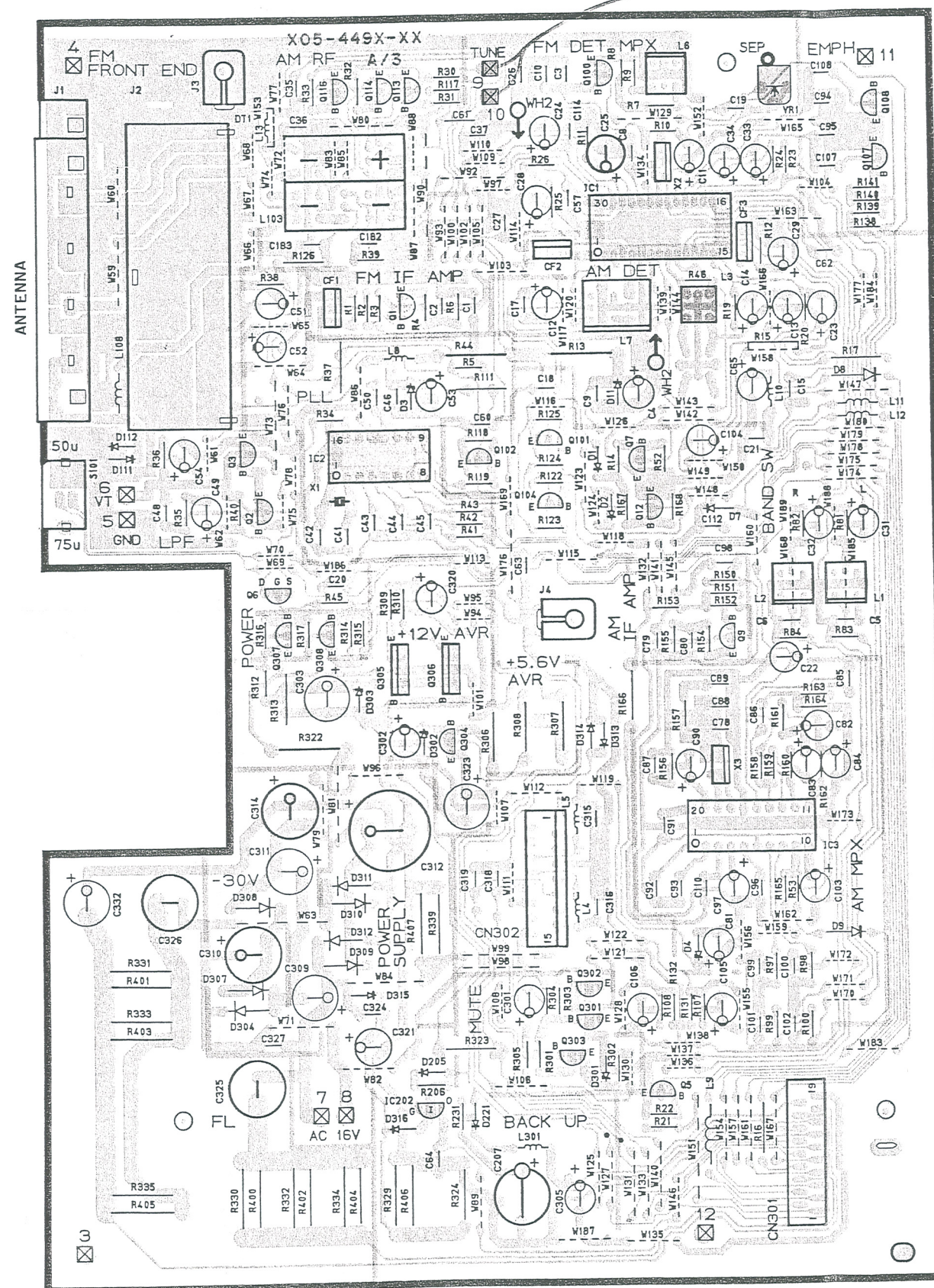


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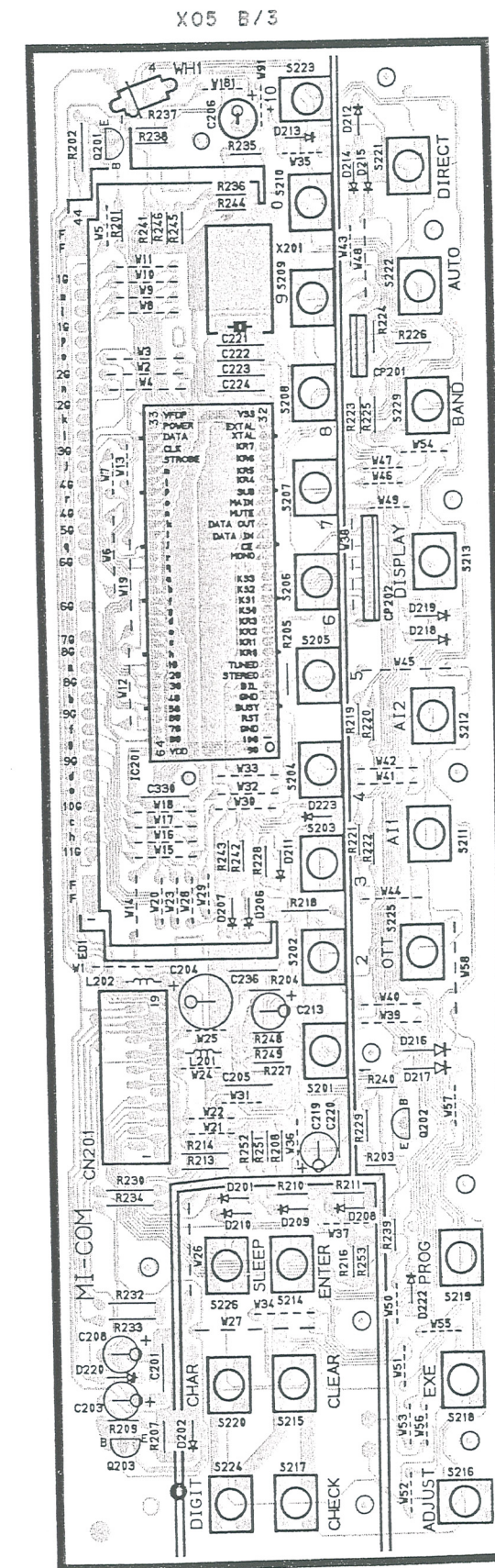
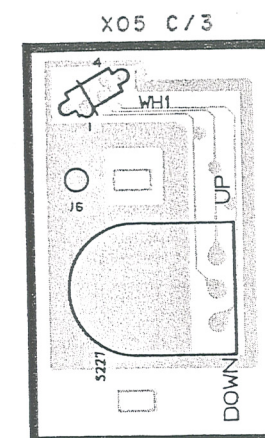


# PC BOARD (COMPONENT SIDE VIEW)

JAPAN MADE : X05-449X-XX (0-02 : J, 0-22 : Y · M, 0-72 : X, 2-71 : E · T · G)  
SINGAPORE MADE : X05-449X-XX (0-01 : J, 0-21 : Y · M, 0-71 : X, 2-70 : E · T · G)  
MALAYSIA MADE : X05-449X-XX (0-21 : I, 2-70 : E · T · G)

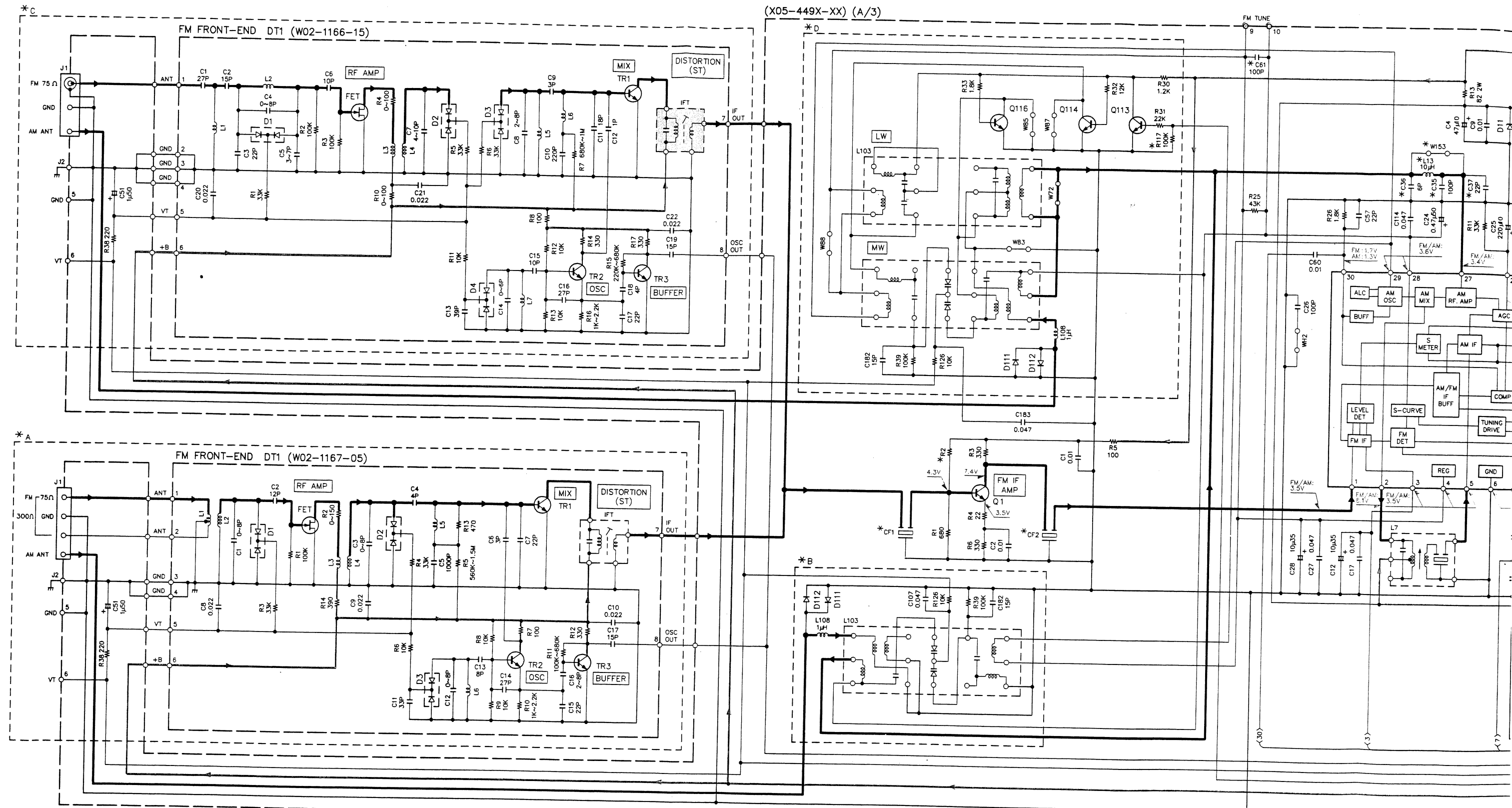


DC voltmeter  
(a) Discriminator : 0V



Refer to the schematic diagram for the values of resistors and capacitors.



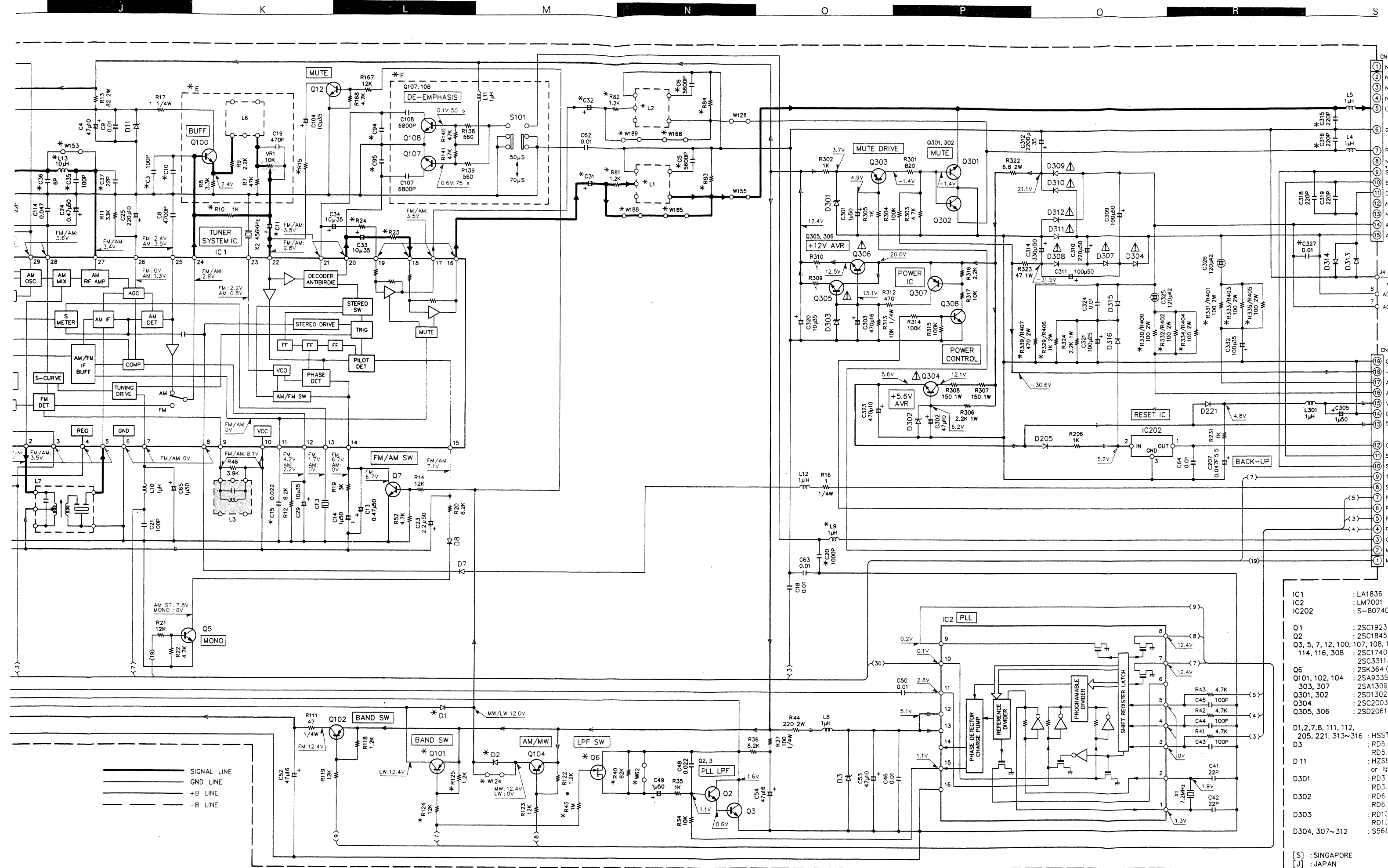


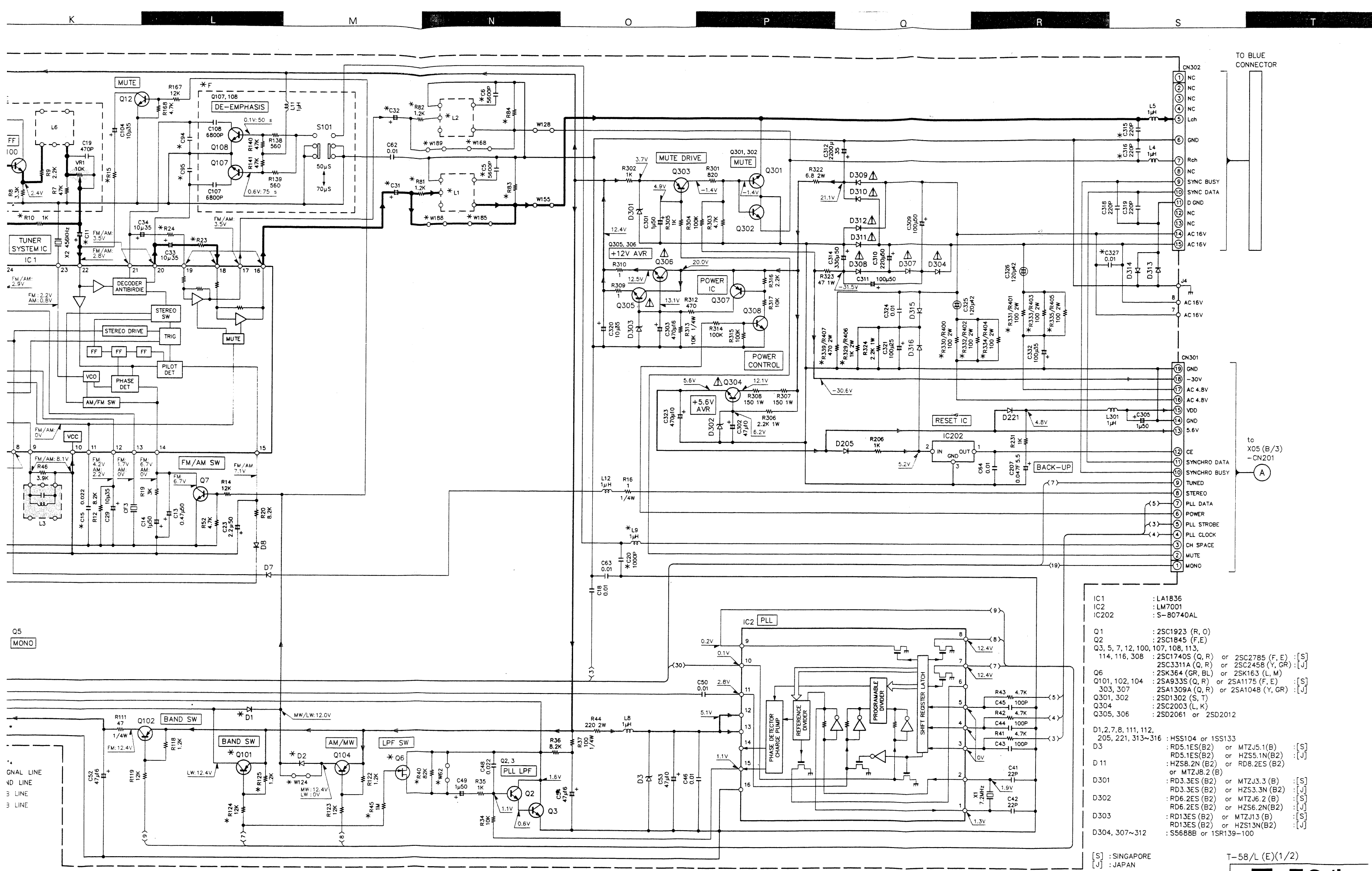
MODEL NAME	PRODUCT P.	DESTINATION	UNIT NAME	A,B	C-E	F	R2	R10	R15	R23,24	R30~33,40,45	R30~33,40,45	R83,84	R329~335,339	R400~407	C3,15,35	C5,6,36,37	C10	C11	C20	C31,32	C61	C94,95	C315,316,327	CF1,2	L1,2	L9	L13	L103	Q6,101,113,114,116	D1,2	W62,124,153,168,185,188,189
T-58	JAPAN MADE	GENERAL MARKET	X05-4490-22	YES	NO	YES	3.3K	YES	47K	6.8K	NO	NO	39K	YES	NO	YES	NO	1200P	2.2μ50	YES	0.47μ50	YES	0.022	NO	L72-0531-05	NO	YES	W153	L39-1328-05	NO	NO	YES
		AUSTRALIA	X05-4490-72	YES	NO	NO	3.3K	YES	47K	6.8K	NO	NO	39K	YES	NO	YES	NO	1200P	2.2μ50	NO	0.47μ50	YES	0.018	NO	L72-0531-05	NO	NO	W153	L39-1328-05	NO	NO	YES
	SINGAPORE MADE	GENERAL MARKET	X05-4490-21	YES	NO	YES	3.3K	YES	47K	6.8K	NO	NO	39K	NO	YES	YES	NO	1200P	2.2μ50	YES	0.47μ50	YES	0.022	NO	L71-0531-05	NO	YES	W153	L39-1328-05	NO	NO	YES
		AUSTRALIA	X05-4490-71	YES	NO	NO	3.3K	YES	47K	6.8K	NO	NO	39K	NO	YES	YES	NO	1200P	2.2μ50	NO	0.47μ50	YES	0.018	NO	L72-0531-05	NO	NO	W153	L39-1328-05	NO	NO	YES
T-58L	MALAYSIA MADE	GENERAL MARKET	X05-4490-21	YES	NO	YES	3.3K	YES	47K	6.8K	NO	NO	39K	NO	YES	YES	NO	1200P	2.2μ50	YES	0.47μ50	YES	0.022	NO	L72-0531-05	NO	YES	W153	L39-1328-05	NO	NO	YES
		EUROPE	X05-4492-71	NO	YES	NO	1K	NO	10K	1.2K	YES	4.7K	NO	YES	NO	NO	YES	1000P	1μ50	NO	2.2μ50	NO	0.027	YES	L72-0536-05	YES	NO	YES	L39-1325-05	YES	YES	NO
	SINGAPORE/ MALAYSIA MADE	EUROPE	X05-4492-70	NO	YES	NO	1K	NO	10K	1.2K	YES	4.7K	NO	YES	NO	NO	YES	1000P	1μ50	NO	2.2μ50	NO	0.027	YES	L72-0536-05	YES	NO	YES	L39-1325-05	YES	YES	NO
		U.K.	X05-4492-70	NO	YES	NO	1K	NO	10K	1.2K	YES	4.7K	NO	YES	NO	NO	YES	1000P	1μ50	NO	2.2μ50	NO	0.027	YES	L72-0536-05	YES	NO	YES	L39-1325-05	YES	YES	NO

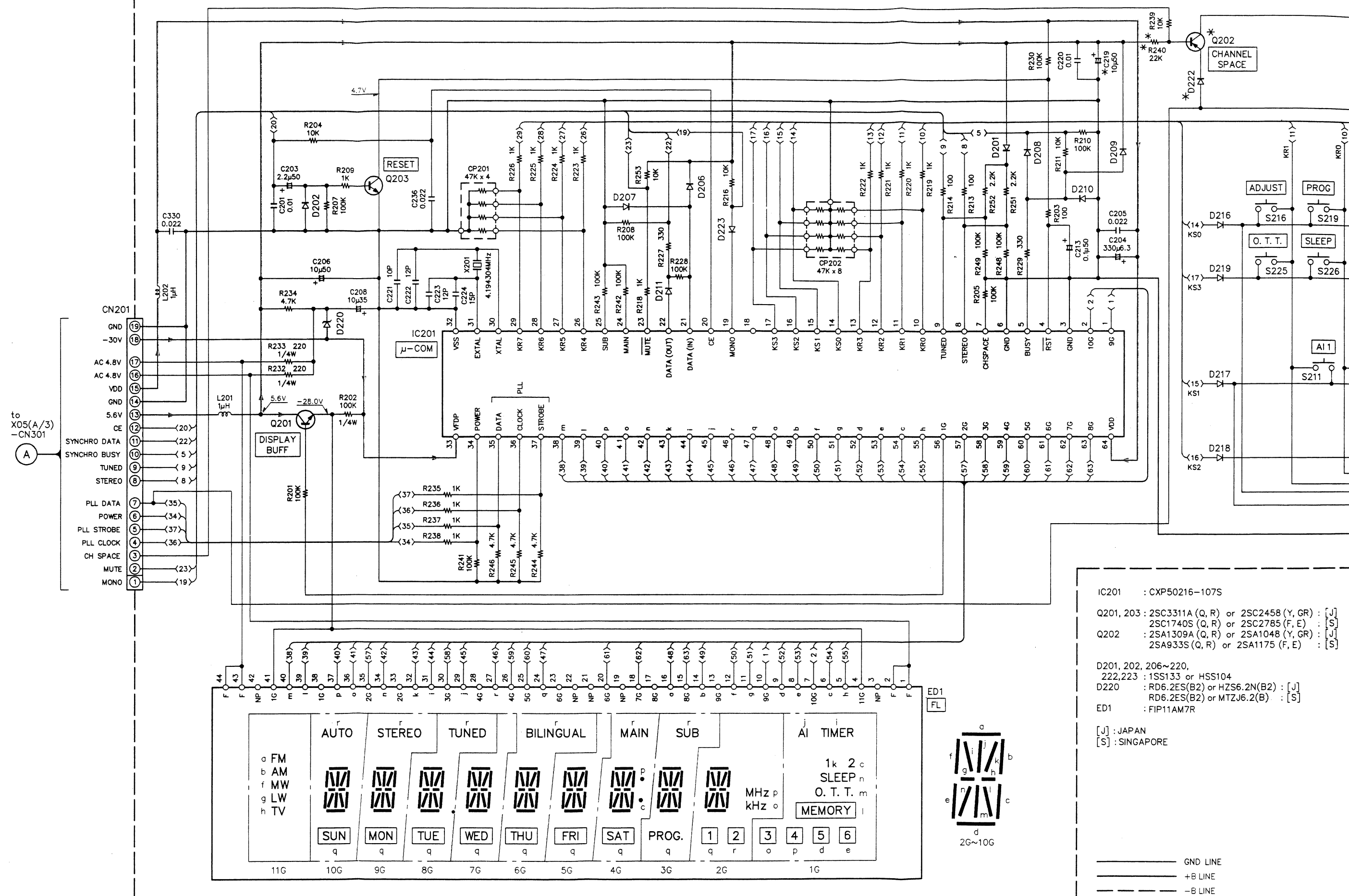
# CAUTION:

For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  
 △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

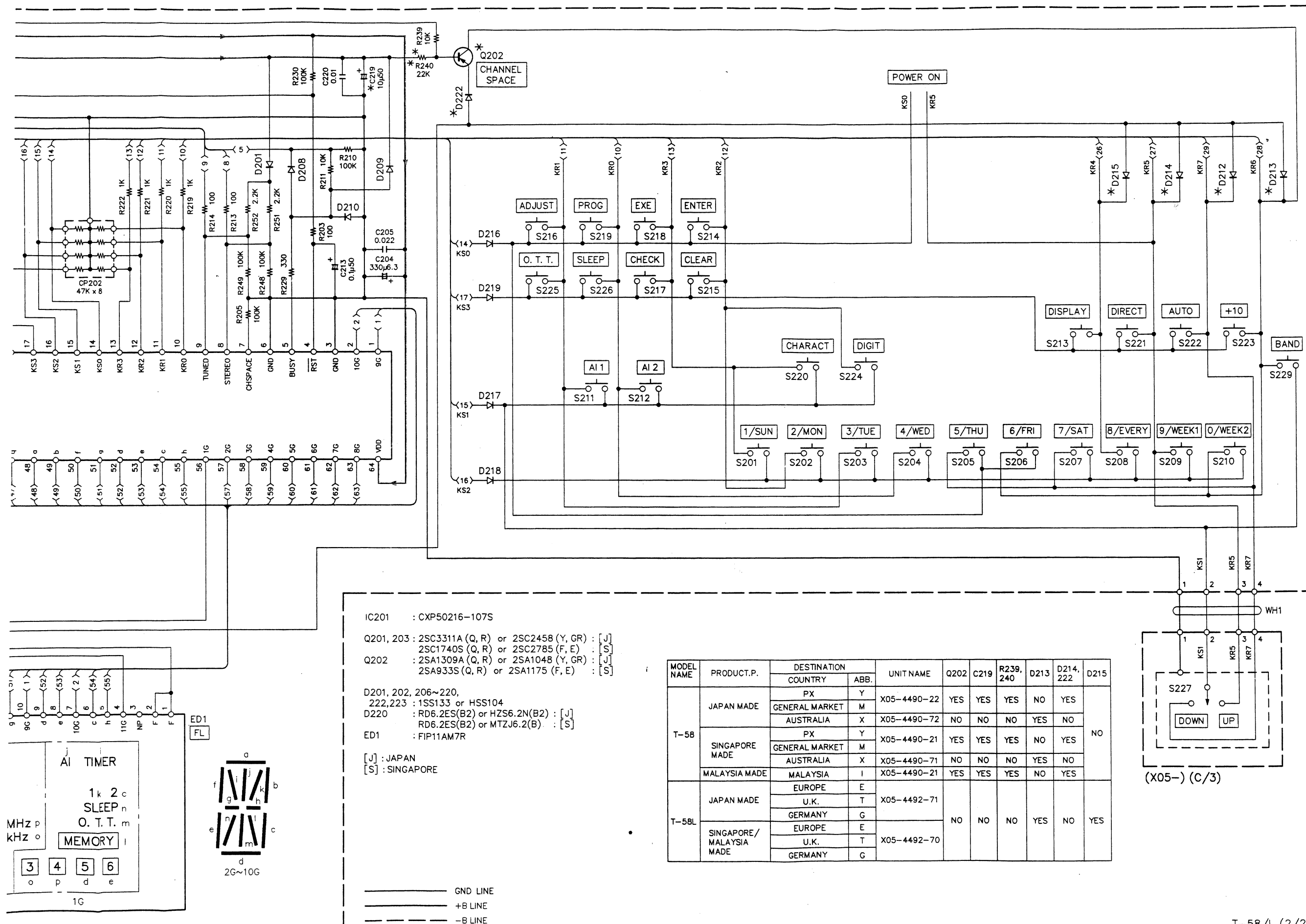
• DC voltages are as measured with a high impedance voltmeter during reception of an FM broadcast signal (with a signal strength of 60dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and at the ANT terminal).











AK

AL

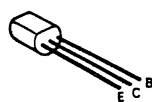
AM

AN

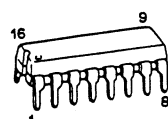
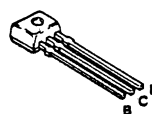
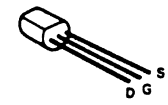
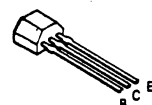
T-58/L

2SC1845  
2SC20032SC1923  
2SD1302

2SD2012

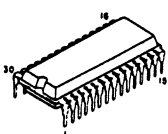
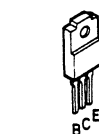
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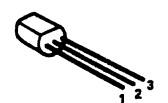
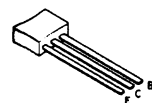
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2SK364

2SD2061

LA1836

2SA1309A  
2SC3311A

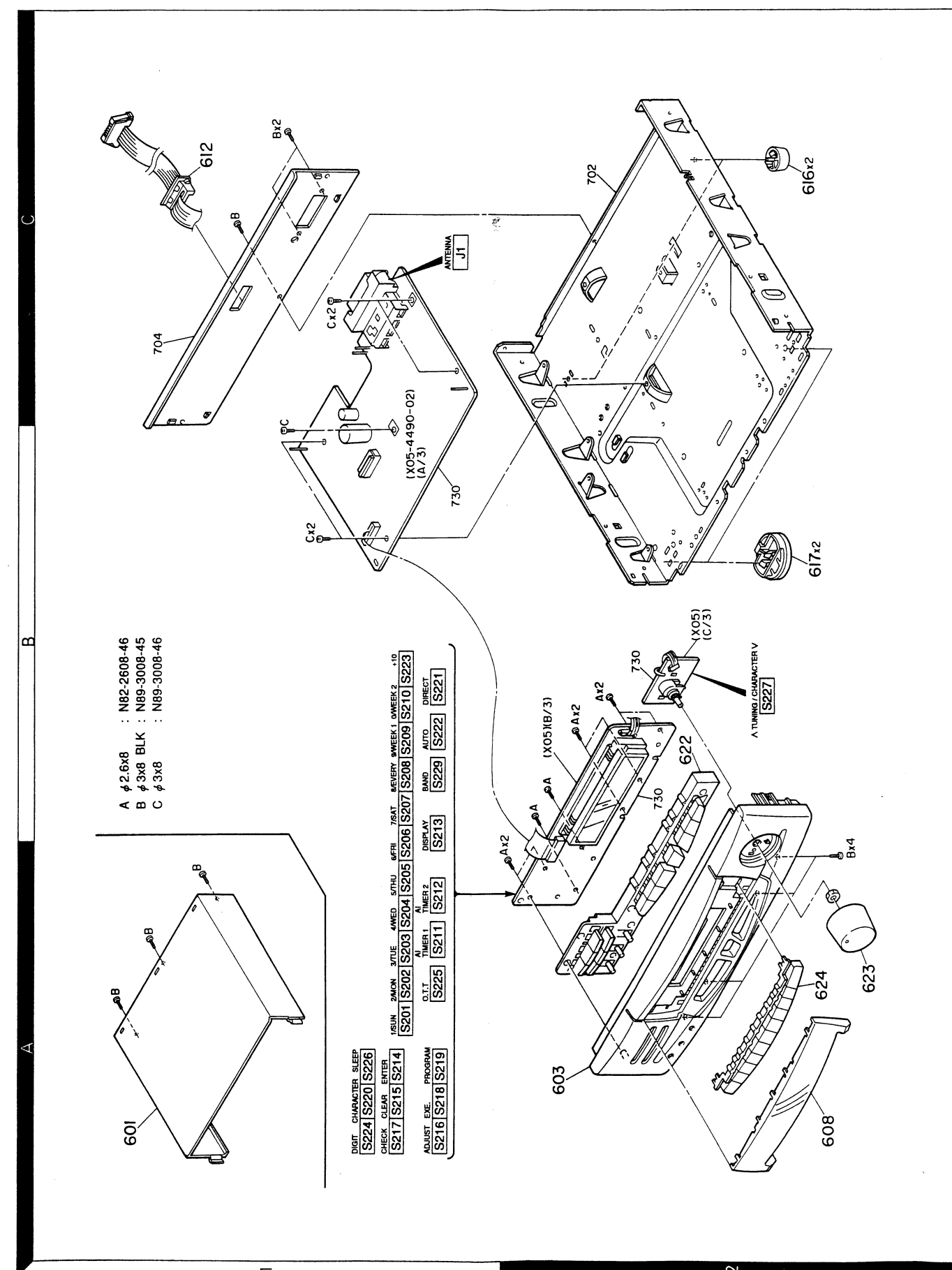
S-80740AL

**CAUTION:**

For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components.

To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter during reception of an FM broadcast signal (with a signal strength of 60dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of an AM broadcast signal (with a signal strength of 60dB at the ANT terminal).

**EXPLODED VIEW (UNIT)**

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
T-58/L : JAPAN MADE						
601	1A		A01-1799-01	METALLIC CABINET		
603	2A	*	A60-0603-01	PANEL	YMX	
603	2A	*	A60-0604-01	PANEL	ETG	
608	2A	*	B10-2038-03	FRONT GLASS		
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-43	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ETG	
612	1C	*	E30-2777-05	CORD WITH CONNECTOR		
-		*	H10-5810-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-5811-02	POLYSTYRENE FOAMED FIXTURE (R)	Y	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0382-04	PROTECTION BAG (800X400X0.03)	YMX	
-		*	H50-1132-04	ITEM CARTON CASE		
-		*	H50-1133-04	ITEM CARTON CASE	ETG	
616	2C		J02-0366-15	FOOT REAR		
617	2B		J02-1040-05	FOOT FRONT		
622	2B	*	K29-5949-02	KNØB		
623	2A	*	K29-5950-14	KNØB TUNING/CHARACTER		
624	2A	*	K29-5982-03	KNØB WEEK/+10		
A	2A, 2B		N82-2608-46	BINDING HEAD TAPTITE SCREW		
B	1A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	1B, 1C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
T-58/L : SINGAPORE, MALAYSIA MADE						
601	1A		A01-1887-11	METALLIC CABINET		
603	2A	*	A60-0603-01	PANEL	YMXI	
603	2A	*	A60-0604-01	PANEL	ETG(SW	
608	2A	*	B10-2038-03	FRONT GLASS		(SW
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-43	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ETG	
-			B46-0310-03	WARRANTY CARD	ETG(W	
612	1C	*	E30-2777-05	CORD WITH CONNECTOR		(SW
-		*	H10-5859-02	POLYSTYRENE FOAMED FIXTURE (L)	EYMXTG	
-		*	H10-5860-02	POLYSTYRENE FOAMED FIXTURE (R)	EYMXTG	
-		*	H10-5861-02	POLYSTYRENE FOAMED FIXTURE (L)	IETG(W	
-		*	H10-5862-02	POLYSTYRENE FOAMED FIXTURE (R)	IETG(W	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	Y	
-			H25-0382-04	PROTECTION BAG (800X400X0.03)		(SW
-		*	H50-1190-04	ITEM CARTON CASE	ETG	
-		*	H50-1213-04	ITEM CARTON CASE	YX	
-		*	H50-1214-04	ITEM CARTON CASE	M	(W
-		*	H50-1223-04	ITEM CARTON CASE	I	
-		*	H50-1224-04	ITEM CARTON CASE	ETG(W	
616	2C		J02-0366-15	FOOT REAR		(SW
617	2B		J02-1040-05	FOOT FRONT		(SW

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622	2B	*	K29-5949-02	KNØB	(SW	
623	2A	*	K29-5950-14	KNØB TUNING/CHARACTER	(SW	
624	2A	*	K29-5982-03	KNØB WEEK/+10	(SW	
A	2A, 2B		N82-2608-46	BINDING HEAD TAPTITE SCREW	(SW	
B	1A, 1C		N89-3008-45	BINDING HEAD TAPTITE SCREW	(SW	
C	1B, 1C		N89-3008-46	BINDING HEAD TAPTITE SCREW	(SW	
TUNER UNIT (X05-449X-XX)						
C1	, 2		CK45FF1H103Z	CERAMIC 0.010UF Z		
C3			CC45FSL1H101J	CERAMIC 100PF J	YMXI	
C4			CE04KW1A470M	ELECTRØ 47UF 10WV		
C5	, 6	*	CQ93FMG1H562J	MYLAR 5600PF J	ETG	
C8			CK45FF1H472Z	CERAMIC 4700PF Z		
C9			CK45FF1H103Z	CERAMIC 0.010UF Z		
C10			CQ93FMG1H102J	MYLAR 1000PF J	ETG	
C10		*	CQ93FMG1H122J	MYLAR 1200PF J	YMXI	
C11			CE04LW1H010M	ELECTRØ 1.0UF 50WV	ETG	
C11			CE04LW1H2R2M	ELECTRØ 2.2UF 50WV	YMXI	
C12			CE04KW1V100M	ELECTRØ 10UF 35WV		
C13			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C14			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C15			CK45FF1H223Z	CERAMIC 0.022UF Z	YMXI	
C17			CK45FF1H473Z	CERAMIC 0.047UF Z		
C18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C19			CK45FB1H471K	CERAMIC 470PF K	ETG	
C20			CC45FSL1H102J	CERAMIC 1000PF J	YMI	
C21			CC45FSL1H101J	CERAMIC 100PF J		
C23			CE04KW1H2R2M	ELECTRØ 2.2UF 50WV		
C24			CE04KW1HR47M	ELECTRØ 0.47UF 50WV		
C25			CE04KW1A221M	ELECTRØ 220UF 10WV		
C26			CC45FSL1H101J	CERAMIC 100PF J		
C27			CK45FF1H473Z	CERAMIC 0.047UF Z		
C28	, 29		CE04KW1V100M	ELECTRØ 10UF 35WV		
C31	, 32		CE04LW1HR47M	ELECTRØ 0.47UF 50WV	YMXI	
C31	, 32		CE04LW1H2R2M	ELECTRØ 2.2UF 50WV	ETG	
C33	, 34		CE04KW1V100M	ELECTRØ 10UF 35WV		
C35			CC45FSL1H101J	CERAMIC 100PF J	YMXI	
C36			CC45FSL1H060D	CERAMIC 6.0PF D	ETG	
C37			CC45FCH1H220J	CERAMIC 22PF J	ETG	
C41	, 42		CC45FCH1H220J	CERAMIC 22PF J		
C43	-45		CC45FSL1H101J	CERAMIC 100PF J		
C46			CK45FF1H103Z	CERAMIC 0.010UF Z		
C48			CQ93FMG1H223J	MYLAR 0.022UF J		
C49			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C50			CK45FF1H103Z	CERAMIC 0.010UF Z		
C51			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C52			CE04KW1C470M	ELECTRØ 47UF 16WV		
C53			CE04KW1A470M	ELECTRØ 47UF 10WV		
C54			CE04KW1C470M	ELECTRØ 47UF 16WV		
C57			CC45FCH1H220J	CERAMIC 22PF J		
C60			CK45FF1H103Z	CERAMIC 0.010UF Z		
C61			C91-0745-05	CERAMIC 100PF K	YMXI	
C62	-64		CK45FF1H103Z	CERAMIC 0.010UF Z		
C65			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C94	, 95	*	CQ93FMG1H183J	MYLAR 0.018UF J	X	

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C94 ,95 C94 ,95 C104 C107,108 C114		*	CQ93FMG1H223J CQ93FMG1H273J CE04KW1V100M CQ93FMG1H682J CK45FF1H473Z	MYLAR 0.022UF J MYLAR 0.027UF J ELECTRØ 10UF 35WV MYLAR 6800PF J CERAMIC 0.047UF Z	YMI ETG  YMI	
C182 C183 C201 C203 C204			CC45FSL1H150J CK45FF1H473Z C91-0769-05 C90-3254-05 C90-3216-05	CERAMIC 15PF J CERAMIC 0.047UF Z CERAMIC 0.01UF K ELECTRØ 2.2UF 50WV ELECTRØ 330UF 6.3WV		
C205 C206 C207 C208 C213			C91-0085-05 C90-3258-05 C90-1827-05 C90-3244-05 C90-3248-05	CERAMIC 0.022UF N ELECTRØ 10UF 50WV ELECTRØ 0.047UF 5.5WV ELECTRØ 10UF 35WV ELECTRØ 0.1UF 50WV		
C219 C220 C221 C222, 223 C224		*	C90-3258-05 C91-0769-05 C91-1235-05 C91-1237-05 C91-1239-05	ELECTRØ 10UF 50WV CERAMIC 0.01UF K CERAMIC 10PF J CERAMIC 12PF J CERAMIC 15PF J	YMI	
C236 C301 C302 C303 C305			C91-0085-05 CE04KW1H010M CE04KW1A470M CE04DW1C471M CE04KW1H010M	CERAMIC 0.022UF N ELECTRØ 1.0UF 50WV ELECTRØ 47UF 10WV ELECTRØ 470UF 16WV ELECTRØ 1.0UF 50WV		
C309 C310 C311 C312 C314			CE04KW1H101M CE04KW1H221M CE04KW1H101M CE04KW1V222M CE04KW1H331M	ELECTRØ 100UF 50WV ELECTRØ 220UF 50WV ELECTRØ 100UF 50WV ELECTRØ 2200UF 35WV ELECTRØ 330UF 50WV		
C315,316 C318,319 C320 C321 C323			CC45FSL1H221J CC45FSL1H221J CE04KW1V100M CE04KW1E101M CE04KW1A471M	CERAMIC 220PF J CERAMIC 220PF J ELECTRØ 10UF 35WV ELECTRØ 100UF 25WV ELECTRØ 470UF 10WV	ETG	
C324 C325, 326 C327 C330 C332			CK45FF1H103Z C90-1839-05 CK45FF1H103Z C91-0085-05 CE04KW1V101M	CERAMIC 0.010UF Z NP-ELEC 120UF 42WV CERAMIC 0.010UF Z CERAMIC 0.022UF N ELECTRØ 100UF 35WV	ETG	
J1 J1	1C 1C		E20-0321-05 E20-0476-05	LOCK TERMINAL BOARD LOCK TERMINAL BOARD(4P)	ETG YMXI	
J6			J11-0098-05	WIRE CLAMPER		
CF1 ,2 CF1 ,2 CF3 L1 ,2 L3		*	L72-0531-05 L72-0536-05 L72-0581-05 L79-1219-05 L30-0910-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER LC FILTER FM IFT	YMXI ETG  ETG	
L4 ,5 L6 L7 L8 L9		*	L40-1091-17 L79-1220-05 L30-0488-05 L40-1091-17 L40-1091-17	SMALL FIXED INDUCTØR(1UH) LC FILTER AM IFT SMALL FIXED INDUCTØR(1UH) SMALL FIXED INDUCTØR(1UH)	ETG   YMI	

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L10 L11 L12 L13 L103			L40-1091-17 L40-1091-17 L40-1091-17 L40-1001-17 L39-1325-05	SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(10UH) COMBINATION COIL	YMI   ETG ETG	
L103 L108 L201,202 L301 X1			L39-1328-05 L40-1091-17 L40-1091-17 L40-1091-17 L77-1122-05	COMBINATION COIL SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH) SMALL FIXED INDUCTOR(1UH) CRYSTAL RESONATOR(7.2MHz)	YMXI	
X2 X201			L78-0295-05 L77-1175-05*	RESONATOR (456kHz) CRYSTAL RESONATOR(4.194304MHz)		
CP201 CP202 R13 R37 R44			R90-0487-05 R90-0804-05 RS14KB3D820J RD14NB2E101J RS14KB3D221J	MULTI-COMP 47KX4 J 1/6W MULTI-COMP 47KX8 J 1/4W FL-PROOF RS 82 J 2W RD 100 J 1/4W FL-PROOF RS 220 J 2W		
R111 R306 R307,308 R313 R322			RD14NB2E470J RS14DB3A222J RS14DB3A151J RD14NB2E103J RS14KB3D6R8J	RD 47 J 1/4W FL-PROOF RS 2.2K J 1W FL-PROOF RS 150 J 1W RD 10K J 1/4W FL-PROOF RS 6.8 J 2W		
R323 R324 R329 R330-335 R339			RS14DB3A470J RS14DB3A222J RS14DB3D102J RS14DB3D101J RS14DB3D471J	FL-PROOF RS 47 J 1W FL-PROOF RS 2.2K J 1W FL-PROOF RS 1.0K J 2W FL-PROOF RS 100 J 2W FL-PROOF RS 470 J 2W		J J
R400-405 R406 R407 VR1			RS14KB3D101J RS14KB3D102J RS14KB3D471J R12-3685-05	FL-PROOF RS 100 J 2W FL-PROOF RS 1.0K J 2W FL-PROOF RS 470 J 2W TRIMMING POT.(10K)	ETG	S S S
S101 S201-226 S227 S229			S31-2132-05 S40-1064-05 S29-1156-05 S40-1064-05	SLIDE SWITCH DE-EMPHASIS PUSH SWITCH TUNING/CHARACTER ROTARY SWITCH BAND PUSH SWITCH	YMI	
D1 ,2 D1 ,2 D3 D3 D3			HSS104 1SS133 HZS5.1N(B2) MTZJ5.1(B) RD5.1ES(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	ETG ETG	J S
D7 ,8 D7 ,8 D11 D11 D11			HSS104 1SS133 HZS8.2N(B2) MTZJ8.2(B) RD8.2ES(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		J S
D111,112 D111,112 D201,202 D201,202 D205-212			HSS104 1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE		
D205-212 D213 D213 D214			1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE	EXTG EXTG YMI	

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D214			1SS133	DIODE	YMI	
D215			HSS104	DIODE	ETG	
D215			1SS133	DIODE	ETG	
D216-219			HSS104	DIODE		
D216-219			1SS133	DIODE		
D220			HZS6.2N(B2)	ZENER DIODE		J
D220			MTZJ6.2(B)	ZENER DIODE		S
D220			RD6.2ES(B2)	ZENER DIODE		
D221			HSS104	DIODE		
D221			1SS133	DIODE		
D222			HSS104	DIODE	YMI	
D222			1SS133	DIODE	YMI	
D223			HSS104	DIODE		
D223			1SS133	DIODE		J
D301			HZS3.3N(B2)	ZENER DIODE		S
D301		*	MTZJ3.3(B)	ZENER DIODE		J
D301			RD3.3ES(B2)	ZENER DIODE		S
D302			HZS6.2N(B2)	ZENER DIODE		
D302			MTZJ6.2(B)	ZENER DIODE		
D302			RD6.2ES(B2)	ZENER DIODE		
D303			HZS13N(B2)	ZENER DIODE		J
D303			MTZJ13(B)	ZENER DIODE		S
D303			RD13ES(B2)	ZENER DIODE		
D304			S5688B	DIODE		
D304			1SR139-100	DIODE		
D307-312			S5688B	DIODE		
D307-312			1SR139-100	DIODE		
D313-316			HSS104	DIODE		
D313-316			1SS133	DIODE		
ED1			FIP11AM7R	INDICATOR TUBE		
IC1		*	LA1836	ANALOGUE IC		
IC2			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC201			CXP50216-107S	IC(U-COM)		
IC202			S-80740AL	IC(VOLTAGE DETECTOR)		
Q1			2SC1923(R,0)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		S
Q3			2SC1740S(Q,R)	TRANSISTOR		J
Q3			2SC2458(Y,GR)	TRANSISTOR		S
Q3			2SC2785(F,E)	TRANSISTOR		J
Q3			2SC3311A(Q,R)	TRANSISTOR		J
Q5			2SC1740S(Q,R)	TRANSISTOR		S
Q5			2SC2458(Y,GR)	TRANSISTOR		J
Q5			2SC2785(F,E)	TRANSISTOR		S
Q5			2SC3311A(Q,R)	TRANSISTOR		J
Q6			2SK163(L,M)	FET	ETG	
Q6			2SK364(GR,BL)	FET	ETG	
Q7			2SC1740S(Q,R)	TRANSISTOR		S
Q7			2SC2458(Y,GR)	TRANSISTOR		J
Q7			2SC2785(F,E)	TRANSISTOR		S
Q7			2SC3311A(Q,R)	TRANSISTOR		J
Q12			2SC1740S(Q,R)	TRANSISTOR		S
Q12			2SC2458(Y,GR)	TRANSISTOR		J
Q12			2SC2785(F,E)	TRANSISTOR		S
Q12			2SC3311A(Q,R)	TRANSISTOR		J
Q100			2SC1740S(Q,R)	TRANSISTOR	ETG	S

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
Q100			2SC2458(Y,GR)	TRANSISTOR	ETG	J
Q100			2SC2785(F,E)	TRANSISTOR	ETG	S
Q100			2SC3311A(Q,R)	TRANSISTOR	ETG	J
Q101			2SA1048(Y,GR)	TRANSISTOR	ETG	J
Q101			2SA1175(F,E)	TRANSISTOR	ETG	S
Q101			2SA1309A(Q,R)	TRANSISTOR	ETG	J
Q101			2SA933S(Q,R)	TRANSISTOR	ETG	S
Q102			2SA1048(Y,GR)	TRANSISTOR		J
Q102			2SA1175(F,E)	TRANSISTOR		S
Q102			2SA1309A(Q,R)	TRANSISTOR		J
Q102			2SA933S(Q,R)	TRANSISTOR		S
Q104			2SA1048(Y,GR)	TRANSISTOR		J
Q104			2SA1175(F,E)	TRANSISTOR		S
Q104			2SA1309A(Q,R)	TRANSISTOR		J
Q104			2SA933S(Q,R)	TRANSISTOR		S
Q107,108			2SC1740S(Q,R)	TRANSISTOR	YMI	S
Q107,108			2SC2458(Y,GR)	TRANSISTOR	YM	J
Q107,108			2SC2785(F,E)	TRANSISTOR	YMI	S
Q107,108			2SC3311A(Q,R)	TRANSISTOR	YM	J
Q113,114			2SC1740S(Q,R)	TRANSISTOR	ETG	S
Q113,114			2SC2458(Y,GR)	TRANSISTOR	ETG	J
Q113,114			2SC2785(F,E)	TRANSISTOR	ETG	S
Q113,114			2SC3311A(Q,R)	TRANSISTOR	ETG	J
Q116			2SC1740S(Q,R)	TRANSISTOR	ETG	S
Q116			2SC2458(Y,GR)	TRANSISTOR	ETG	J
Q116			2SC2785(F,E)	TRANSISTOR	ETG	S
Q116			2SC3311A(Q,R)	TRANSISTOR	ETG	J
Q201			2SC1740S(Q,R)	TRANSISTOR		S
Q201			2SC2458(Y,GR)	TRANSISTOR		J
Q201			2SC2785(F,E)	TRANSISTOR		S
Q201			2SC3311A(Q,R)	TRANSISTOR		J
Q202			2SA1048(Y,GR)	TRANSISTOR	YM	J
Q202			2SA1175(F,E)	TRANSISTOR	YMI	S
Q202			2SA1309A(Q,R)	TRANSISTOR	YM	J
Q202			2SA933S(Q,R)	TRANSISTOR	YMI	S
Q203			2SC1740S(Q,R)	TRANSISTOR		S
Q203			2SC2458(Y,GR)	TRANSISTOR		J
Q203			2SC2785(F,E)	TRANSISTOR		S
Q203			2SC3311A(Q,R)	TRANSISTOR		J
Q301,302			2SD1302(S,T)	TRANSISTOR		
Q303			2SA1048(Y,GR)	TRANSISTOR		J
Q303			2SA1175(F,E)	TRANSISTOR		S
Q303			2SA1309A(Q,R)	TRANSISTOR		J
Q303			2SA933S(Q,R)	TRANSISTOR		S
△ Q304			2SC2003(L,K)	TRANSISTOR		
△ Q305,306			2SD2012	TRANSISTOR		
△ Q305,306			2SD2061	TRANSISTOR		
Q307			2SA1048(Y,GR)	TRANSISTOR		J
Q307			2SA1175(F,E)	TRANSISTOR		S
Q307			2SA1309A(Q,R)	TRANSISTOR		J
Q307			2SA933S(Q,R)	TRANSISTOR		S
Q308			2SC1740S(Q,R)	TRANSISTOR		S
Q308			2SC2458(Y,GR)	TRANSISTOR		J
Q308			2SC2785(F,E)	TRANSISTOR		S
Q308			2SC3311A(Q,R)	TRANSISTOR		J

L: Scandinavia

K: USA

P: Canada

R: Mexico

J: JAPAN MADE

S: SINGAPORE MADE

Y: PX (Far East, Hawaii)

T: England

E: Europe

G: Germany

Y: AAFES (Europe)

X: Australia

M: Other Areas


△ indicates safety critical components.

PARTS LIST

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnes dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
DT1 DT1			W02-1166-15 W02-1167-05	FM FRONT-END ASSY FM FRONT-END ASSY	ETG YMX1	

L: Scandinavia      K: USA      P: Canada      R: Mexico  
Y: PX (Far East, Hawaii)    T: England    E: Europe    G: Germany  
Y: AAFES (Europe)    X: Australia    M: Other Areas

 indicates safety critical components.

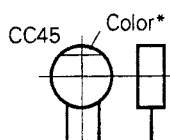


## PARTS LIST

## CAPACITORS

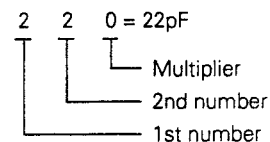
CC	45	TH	1H	220	J
1	2	3	4	5	6

- 1 = Type ... ceramic, electrolytic, etc.      4 = Voltage rating  
 2 = Shape ... round, square, ect.          5 = Value  
 3 = Temp. coefficient                          6 = Tolerance



## • Capacitor value

- 010 = 1pF  
 100 = 10pF  
 101 = 100pF  
 102 = 1000pF = 0.001μF  
 103 = 0.01μF



## • Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

## • Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

## (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

## • Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

## • Chip capacitors

- (EX) C C 7 3 F S L 1 H 0 0 0 J  
 1 2 3 4 5 6 7  
 (Chip) (CH, RH, UJ, SL)
- (EX) C K 7 3 F F 1 H 0 0 0 Z  
 1 2 3 4 5 6 7  
 (Chip) (B, F)
- Refer to the table above.
- 1 = Type  
 2 = Shape  
 3 = Dimension  
 4 = Temp. coefficient  
 5 = Voltage rating  
 6 = Value  
 7 = Tolerance

## Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

## RESISTORS

## • Chip resistor (Carbon)

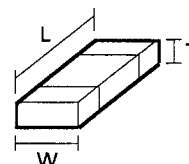
- (EX) R K 7 3 E B 2 B 0 0 0 J  
 1 2 3 4 5 6 7  
 (Chip) (B, F)

## • Carbon resistor (Normal type)

- (EX) R D 1 4 B B 2 C 0 0 0 J  
 1 2 3 4 5 6 7

- 1 = Type  
 2 = Shape  
 3 = Dimension  
 4 = Temp. coefficient  
 5 = Rating wattage  
 6 = Value  
 7 = Tolerance

## Dimension



## Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

## Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

## SPECIFICATIONS

## T-58

## FM tuner section

Tuning frequency range .....	87.5MHz~108MHz
Sensitivity (MONO at 75Ω) .....	1.2μV/13.2dBf
50dB quieting sensitivity (at 75Ω)	
STEREO .....	31.6μV/41.2dBf
Total harmonic distortion (at 1kHz, 65dBf input)	
MONO .....	0.6%
STEREO .....	0.7%
Signal to noise ratio (at 1kHz, 65dBf input)	
MONO .....	75dB
STEREO .....	68dB
Stereo separation (at 1kHz) .....	40dB
Selectivity (±400kHz) .....	50dB
Frequency response (30Hz~15kHz) .....	+0.5dB, -3.0dB

## AM tuner section

Tuning frequency range	
9kHz step .....	531kHz~1,602kHz
10kHz step .....	530kHz~1,610kHz
Usable sensitivity .....	12μV/(500μV/m)
Signal to noise ratio .....	48dB
Total harmonic distortion .....	0.6%

## General

Dimensions .....	W : 360mm (14-3/16")
	H : 90mm (3-9/16")
	D : 372mm (14-5/8")
Weight (net) .....	2.5kg (5.5lb)

## T-58L

## FM tuner section

Tuning frequency range .....	87.5MHz~108MHz
Sensitivity (DIN at 75Ω)	
MONO .....	1.2μV/13.2dBf
Total harmonic distortion (DIN at 1kHz, 65.2dBf input)	
MONO .....	0.6%
STEREO .....	0.7%
Signal to noise ratio (DIN weighted at 1kHz, 65.2dBf input)	
MONO .....	68dB
STEREO .....	64dB
Stereo separation (DIN at 1kHz) .....	40dB
Selectivity (DIN±300kHz) .....	64dB
Frequency response (30Hz~15kHz) .....	+0.5dB, -3.0dB

## MW tuner section

Tuning frequency range .....	531kHz~1,602kHz
Usable sensitivity .....	12μV/(500μV/m)
Signal to noise ratio .....	48dB
Total harmonic distortion .....	0.6%

## LW tuner section

Tuning frequency range .....	153kHz~281kHz
Usable sensitivity .....	22μV
Signal to noise ratio .....	45dB
Total harmonic distortion .....	0.6%

## General

Dimensions .....	W : 360mm (14-3/16")
	H : 90mm (3-9/16")
	D : 372mm (14-5/8")
Weight (net) .....	2.5kg (5.5lb)

**Note :** KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

**Note :**

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the General Market (M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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